

## **AL POLLUTION PREVENTION QUARTERLY REPORT**

The purpose of this report is to track and acknowledge the DOE Albuquerque Operations Office (AL) sites' considerable efforts to be conscientious environmental and fiscal stewards through their Pollution Prevention (P2) Program activities. This report is intended to share information on successful P2 activities, to ensure integrated and cost effective AL P2 efforts, and to inform management of AL P2 activities, progress and issues.

Data for this report is derived from AL P2 accomplishments submitted to the DOE Headquarters (HQ) Pollution Prevention Team (EM-22) P2 database for the first and second quarters of FY00. For additional information the web site address is: <http://twilight.saic.com/wastemin>.

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### **Program Summary**

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For the second quarter FY00, AL sites reported a total of 18 new and 31 ongoing P2 projects. Excluding sanitary wastewater, total reported waste reduction was 16,278 cubic meters. Of this amount 9,188 cubic meters was attributed to cleanup/stabilization P2 activities. Total reported cost savings/avoidance for this quarter was \$2.1M bringing the total cost savings/avoidance for FY00 to \$3.9M.

Cleanup/Stabilization waste reduction for AL totaled 15,336 cubic meters so far in FY00. This far exceeds the FY00 AL EM commitment to reduce 1,731 cubic meters of cleanup/stabilization waste through P2 activities. This number was derived from the FY00 estimate of generating 17,310 cubic meters of cleanup/stabilization waste. The AL EM commitment is based on the Secretarial goal to reduce cleanup/stabilization waste by 10 percent annually.

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### **Program Issues and Upcoming Events**

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We have not received the guidance package from HQ regarding the development of site plans to address budget and resource requirements needed to meet the new pollution prevention/energy efficiency leadership goals issued by Secretary Richardson last November. The latest information I have is that the guidance package will be issued to the field in June or July. The P2 round robin that was scheduled for July will be postponed until the guidance package is issued to the field and sites have an opportunity to prepare their site plans.

HQ EM-22 is working on an unfunded ROI initiative in an effort to obtain ROI program funding for FY01. Unfunded ROI projects were collected from the field in April/May. AL submitted 29 projects in this effort. AL submissions included projects benefiting both EM and DP as requested. Submitted projects are in the process of being validated. Fact sheets are being developed for validated projects and will be presented at an ROI workshop on June 29 at HQ. The Deputy Secretary has agreed to participate in this meeting and is requesting high level participation from HQ program offices.

Congratulations to LANL for their winning the White House Closing the Circle Award for their "Mailstop A1000" P2 project.

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## FY00 Second Quarter AL P2 Performance

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Ongoing or significant P2 accomplishments from prior quarters are not generally reported a second time, unless exceptional progress has been made during the current reporting period. Significant second quarter FY00 accomplishments include:

- The Grand Junction Office donated lead bricks and a lead pig to Texas A&M, resulting in an avoidance of 905 metric tons of hazardous waste.
- Pantex's asphalt recycling program avoided disposal of 5,269 metric tons of sanitary waste and a savings of \$177,144.
- SNL/NM continued its crushing of existing concrete and asphalt material to required specifications for upcoming SNL/NM projects. This process resulted in \$115,394 of new material cost avoidance and reuse of 9,070 metric tons of what would have been sanitary waste.
- LANL continued its sorting, segregating, and recycling/reusing of 5.11 M<sup>3</sup> of contaminated electronic equipment (mixed low-level waste). This recycle/reuse program resulted in a reported savings/avoidance of \$383,250.
- LANL's "green is clean" program of segregating LLW resulted in a waste avoidance of 248.60 M<sup>3</sup> and a savings of \$395,274.

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New and ongoing AL P2 projects and associated waste reduction and cost savings for FY00 and for the second quarter of FY00 only are shown in the tables below.

FY00 AL Pollution Prevention Project Summary							
P2 Activity Type	Waste Type	Total Projects				Waste Reduction for FY (M <sup>3</sup> ) <sup>[1]</sup>	Savings for FY (\$)
		New Projects	Ongoing Projects	Cleanup/Stabilization	Routine Ops		
Source Reduction	HAZ	4	2		6	19.33	\$165,952
	LLW		1		1	7.95	\$8,000
	SAN <sup>[2]</sup>		1		1	25.12	\$3,380
	WW-SAN	1	2	1	2	22,943.41	\$47,730
<b>Total</b>		<b>5</b>	<b>6</b>	<b>1</b>	<b>10</b>	<b>22,995.81</b>	<b>\$225,062</b>
Segregation	LLW		1		1	347.80	\$553,002
	MLLW	1	1	1	1	11.45	\$858,750
<b>Total</b>		<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>359.25</b>	<b>\$1,411,752</b>
Recycle/Reuse	HAZ	6	11	2	15	1,204.12	\$1,318,764
	LLW	4		1	3	266.46	\$423,194
	MLLW						
	SAN <sup>[2]</sup>	9	17	3	23	21,247.93	\$512,752
<b>Total</b>		<b>19</b>	<b>28</b>	<b>6</b>	<b>41</b>	<b>22,718.51</b>	<b>\$2,254,710</b>
Programmatic	Other	1	3		4	0.00	\$45,458
<b>Total</b>		<b>1</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>0.00</b>	<b>\$45,458</b>
<b>AL COMPLEX TOTAL</b>		<b>26</b>	<b>39</b>	<b>8</b>	<b>57</b>	<b>46,073.57</b>	<b>\$3,936,982</b>

Second Quarter FY00 AL Pollution Prevention Project Summary							
P2 Activity Type	Waste Type	Total Projects				Waste Reduction for Qtr (M <sup>3</sup> ) <sup>[1]</sup>	Savings for Qtr (\$)
		New Projects	Ongoing Projects	Cleanup/Stabilization	Routine Ops		
Source Reduction	HAZ	3	2		5	12.40	\$137,405
	LLW					0.00	\$0
	SAN <sup>[2]</sup>		1		1	12.56	\$1,690
	WW-SAN	1	2	1	2	11,755.61	\$23,940
<b>Total</b>		<b>4</b>	<b>5</b>	<b>1</b>	<b>8</b>	<b>11,780.57</b>	<b>\$163,035</b>
Segregation	LLW		1		1	248.60	\$395,274
	MLLW	1			1	5.11	\$383,250
<b>Total</b>		<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>253.71</b>	<b>\$778,524</b>
Recycle/Reuse	HAZ	4	10	1	13	1,106.05	\$578,417
	LLW	2			2	169.75	\$269,425
	MLLW						
	SAN <sup>[2]</sup>	7	15	3	19	14,695.40	\$357,356
<b>Total</b>		<b>13</b>	<b>25</b>	<b>4</b>	<b>34</b>	<b>15,971.20</b>	<b>\$1,205,198</b>
Programmatic	Other					0.00	\$0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>\$0</b>
<b>AL COMPLEX TOTAL</b>		<b>18</b>	<b>31</b>	<b>5</b>	<b>44</b>	<b>28,005.48</b>	<b>\$2,146,757</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; all other waste types are measured in cubic meters.

Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

<sup>[2]</sup> Includes sanitary wastewater

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## Individual Site Accomplishments

The first two tables below represent a roll-up summary of AL P2 accomplishments by site; the first table combines the first and second quarters of FY00 and the second table provides data for only the second quarter of FY00. Subsequent tables indicate second quarter FY00 accomplishments for the individual AL sites. Additional accomplishment information is available at the EM web site, at <http://twilight.saic.com/WasteMin/MainReports.htm>.

AL Site P2 Reported Performance - FY00			
Site	# of Reported Accomplishments	YTD Reductions <sup>[1]</sup>	YTD Savings (\$)
Grand Junction Office	4	1,083.88	0
Kansas City Plant	2	5.30	4,225
Los Alamos National Laboratory	21	1,525.39	2,896,777
Pantex Plant	19	28,381.32	761,554
Sandia National Laboratories-CA	0	0.00	0
Sandia National Laboratories-NM	7	14,990.81	273,832
WIPP	12	86.87	594
<b>Total</b>	<b>65</b>	<b>46,073.57</b>	<b>\$3,936,982</b>

AL Site P2 Reported Performance - Second Quarter FY00			
Site	# of Reported Accomplishments	Qtr Reductions <sup>[1]</sup>	Qtr Savings (\$)
Grand Junction Office	4	1,071.20	0
Kansas City Plant	0	0.00	0
Los Alamos National Laboratory	15	739.77	1,553,884
Pantex Plant	15	17,089.34	439,760
Sandia National Laboratories-CA	0	0.00	0
Sandia National Laboratories-NM	5	9,078.93	153,113
WIPP	10	26.24	0
<b>Total</b>	<b>49</b>	<b>28,005.48</b>	<b>\$2,146,757</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

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Grand Junction Office Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
Donated lead bricks and lead pig to Texas A&M for shielding	Recycle/reuse	HAZ	Routine	New	905.00	\$0
Return of sodium iodide detectors to vendor for reuse	Recycle/reuse	HAZ	Routine	New	145.00	\$0
Transfer of sealed source containing radium salts, manufactured by Marie Curie, to Texas A&M for exhibit on women in science	Recycle/reuse	LLW	Routine	New	0.30	\$0
Miscellaneous recycling	Recycle/reuse	SAN	Routine	New	20.90	\$0
<b>Recycle/reuse Total</b>	<b>4</b>				<b>1,071.20</b>	<b>\$0</b>
<b>Qtr P2 Avoidances/Savings</b>	<b>4</b>				<b>1,071.20</b>	<b>\$0</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

Kansas City Plant Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
<b>Qtr P2 Avoidances/Savings</b>	<b>0</b>				<b>0.00</b>	<b>\$0</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

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Los Alamos National Laboratory Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
GSAF 99 nitric acid recovery with MST-7	Source Reduction	HAZ	Routine	New	0.10	\$1,175
indefinitely without the use of biocides using a combination of oil skimming, filtration, testing, and treatment	Source Reduction	HAZ	Routine	New	10.40	\$122,200
Photochemical waste reduction	Source Reduction	HAZ	Routine	New	0.75	\$8,813
Phone books on the web	Source Reduction	SAN	Routine	Ongoing	12.56	\$1,690
<b>Source Reduction Total</b>	<b>4</b>				<b>23.81</b>	<b>\$133,878</b>
Green is clean	Segregation	LLW	Routine	Ongoing	248.60	\$395,274
Sorting, segregation, recycle, and reuse of MLLW electronic equipment	Segregation	MLLW	Routine	New	5.11	\$383,250
<b>Segregation Total</b>	<b>2</b>				<b>253.71</b>	<b>\$778,524</b>
Site-wide offsite recycle of hazardous materials	Recycle/reuse	HAZ	Cleanup	Ongoing	18.04	\$211,970
Paint thinner recycling	Recycle/reuse	HAZ	Routine	Ongoing	0.30	\$3,525
Site-wide oil recycling	Recycle/reuse	HAZ	Routine	New	10.30	\$121,025
Cardboard recycle, LLW avoidance	Recycle/reuse	LLW	Routine	New	169.45	\$269,425
Site-wide brush reuse at landfill	Recycle/reuse	SAN	Cleanup	Ongoing	23.87	\$3,211
Site-wide metal recycling	Recycle/reuse	SAN	Cleanup	Ongoing	76.06	\$10,232
Cardboard recycle sanitary avoidance	Recycle/reuse	SAN	Routine	Ongoing	35.59	\$4,788
MS A1000- junk mail recycling	Recycle/reuse	SAN	Routine	Ongoing	66.15	\$8,899
Office paper recycling	Recycle/reuse	SAN	Routine	Ongoing	62.49	\$8,407
<b>Recycle/reuse Total</b>	<b>9</b>				<b>462.25</b>	<b>\$641,482</b>
<b>Qtr P2 Avoidances/Savings</b>	<b>15</b>				<b>739.77</b>	<b>\$1,553,884</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

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Pantex Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
Reducing oil changes by analyzing oil	Source Reduction	HAZ	Routine	Ongoing	0.63	\$3,217
ER low-flow sampling implementation	Source Reduction	WW-SAN	Cleanup	Ongoing	14.04	\$11,140
Modifications of chlorine injection at the sewage treatment facility	Source Reduction	WW-SAN	Routine	Ongoing	11,734.77	\$3,100
<b>Source Reduction Total</b>	<b>3</b>				<b>11,749.44</b>	<b>\$17,457</b>
Class I solvent recycling	Recycle/reuse	HAZ	Routine	Ongoing	0.38	\$1,698
Fluorescent light recycling	Recycle/reuse	HAZ	Routine	Ongoing	1.52	\$0
Hazardous battery recycling	Recycle/reuse	HAZ	Routine	Ongoing	13.60	\$118,820
Hazardous scrap metal recycling	Recycle/reuse	HAZ	Routine	Ongoing	9.30	\$91,967
Hazardous solvents from high explosives synthesis processes recycling	Recycle/reuse	HAZ	Routine	New	0.19	\$1,517
Oil filter recycling	Recycle/reuse	HAZ	Routine	Ongoing	0.34	\$926
Precious metals recycling	Recycle/reuse	HAZ	Routine	Ongoing	0.02	\$461
Routine hazardous solvents recycling	Recycle/reuse	HAZ	Routine	Ongoing	0.63	\$6,633
Asphalt recycling	Recycle/reuse	SAN	Routine	New	5,268.93	\$177,144
Nonhazardous scrap metal recycling	Recycle/reuse	SAN	Routine	Ongoing	30.39	\$637
Reduction in plant air emissions by destroying classified matter via a disintegrator versus burning	Recycle/reuse	SAN	Routine	New	13.00	\$22,500
Telephone book recycling	Recycle/reuse	SAN	Routine	New	1.60	\$0
<b>Recycle/reuse Total</b>	<b>12</b>				<b>5,339.90</b>	<b>\$422,303</b>
<b>Qtr P2 Avoidances/Savings</b>	<b>15</b>				<b>17,089.34</b>	<b>\$439,760</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

Sandia National Laboratories/California Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
<b>Qtr P2 Avoidances/Savings</b>	<b>0</b>				<b>0.00</b>	<b>\$0</b>

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Sandia National Laboratories/New Mexico Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
Purchase of bio-soy oil from GSAF funding	Source Reduction	HAZ	Routine	Ongoing	0.52	\$2,000
Electronic x-ray system from 1999 GSAF funding	Source Reduction	WW-SAN	Routine	New	6.80	\$9,700
<b>Source Reduction Total</b>	<b>2</b>				<b>7.32</b>	<b>\$11,700</b>
Closed loop oil recycling from ROI funding	Recycle/reuse	HAZ	Routine	Ongoing	1.43	\$19,875
Concrete crusher crushed concrete and asphalt material to required specification for reapplication (1998 ROI project)	Recycle/reuse	SAN	Cleanup	Ongoing	9,070.00	\$115,394
Reduction of coolant waste with implementation of coolant recycling systems from 1999 GSAF funding	Recycle/reuse	SAN	Routine	New	0.18	\$6,144
<b>Recycle/reuse Total</b>	<b>3</b>				<b>9,071.61</b>	<b>\$141,413</b>
<b>Qtr P2 Avoidances/Savings</b>	<b>5</b>				<b>9,078.93</b>	<b>\$153,113</b>

<sup>1)</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.



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WIPP Second Quarter FY00 Accomplishments						
Accomplishment	P2 Activity Type	Waste Type	Routine or Cleanup Work	New or Ongoing Project	Waste Reduction for Qtr (M3)[1]	Savings for Qtr (\$)
Aluminum cans, stainless steel, and tin recycling	Recycle/reuse	SAN	Routine	New	0.16	\$0
Cardboard recycling	Recycle/reuse	SAN	Routine	Ongoing	1.81	\$0
Donated computer equipment to local schools	Recycle/reuse	SAN	Routine	New	7.16	\$0
Fluorescent and high pressure sodium light bulbs recycling	Recycle/reuse	SAN	Routine	Ongoing	0.09	\$0
Paper recycling	Recycle/reuse	SAN	Routine	Ongoing	5.90	\$0
Plastic recycling	Recycle/reuse	SAN	Routine	Ongoing	0.01	\$0
Sale of used batteries for recycling	Recycle/reuse	SAN	Routine	Ongoing	1.27	\$0
Toner cartridges recycling	Recycle/reuse	SAN	Routine	Ongoing	0.18	\$0
Unprepared steel and stainless steel sold for recycling	Recycle/reuse	SAN	Routine	Ongoing	8.93	\$0
Used oil recycling	Recycle/reuse	SAN	Routine	Ongoing	0.73	\$0
<b>Recycle/reuse Total</b>	<b>10</b>				<b>26.24</b>	<b>\$0</b>
<b>Qtr P2 Avoidances/Savings</b>	<b>10</b>				<b>26.24</b>	<b>\$0</b>

<sup>1)</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.